

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended)      A method of assembling permanent magnet blocks, comprising:

restraining movement of a first permanent magnet block in at least a first direction;

further restraining movement of the first permanent magnet block in at least a second direction;

placing a second permanent magnet block adjacent proximate to the first permanent magnet block, the placing to form at least part of a magnetic circuit including the first and second permanent magnet blocks;

restraining movement of the second permanent magnet block in at least a ~~first~~ third direction otherwise brought about by placing the second permanent magnet block adjacent proximate to the first permanent magnet block; and,

further restraining movement of the second permanent magnet block in at least a second fourth direction.

2. (Previously Amended) The method of claim 1 wherein restraining movement of the first permanent magnet block in at least a first direction comprises restraining movement of the first permanent magnet block using a nonmagnetic frame.

3. (Previously Amended) The method of claim 2 wherein further restraining movement of the first permanent magnet block in at least a second direction comprises deforming the nonmagnetic frame.

4. (Currently Amended) The method of claim 1 wherein ~~restraining movement of the first permanent magnet block and the second permanent magnet block each in a first direction comprises restraining movement of the first permanent magnet block and the second permanent magnet block in~~ **the first direction and the third direction are** the same direction.

5. (Previously Amended) The method of claim 1 wherein the magnetic orientations of the first permanent magnet block and the second permanent magnet block differ.

6. (Original) The method of claim 5 wherein the magnetic orientations of the first permanent magnet block and the second permanent magnet block differ by an angle of 30 degrees.

7. (Previously Amended) The method of claim 1 wherein further restraining movement of the first permanent magnet block and the second permanent magnet block comprises restraining movement of the first permanent magnet block and the second permanent magnet block with a 3-axis ball screw driven linear slide.

8. (Currently Amended) The method of claim 1 wherein restraining the second permanent magnet block in at least a ~~first~~ **third** direction comprises restraining the second permanent magnet block with the nonmagnetic frame.

9. (Currently Amended) The method of claim 1 wherein further restraining movement of the first permanent magnet block **in at least a second direction comprises mechanically restraining movement of the first permanent magnet block and wherein further restraining movement of** the second permanent magnet block **[[ each ]]** in at least a ~~second~~ **fourth** direction comprises mechanically restraining movement of ~~the first permanent magnet block and~~ the second permanent magnet block, the method further comprising applying adhesive to at least one of the sides of the first permanent

magnet block and the second permanent magnet block to adhere the first permanent magnet block and the second permanent magnet block to the frame.

10. (Currently Amended) The method of claim 9 further comprising removing the mechanical restraints in the second **and fourth** directions, once the adhesive has set.

11. (Currently Amended) The method of claim 10 further comprising fracturing one of the magnet blocks while maintaining the position of the adjacent **proximate** magnet block within the frame and removing the fractured magnet block from the frame.

12. (Withdrawn) A method of assembling two permanent magnet blocks into a single magnet assembly comprising:

inserting a first permanent magnet block into a frame that prevents movement of the first permanent magnet block in all but one direction;

preventing movement of the first permanent magnet block in the one direction once inserted;

inserting a second permanent magnet block into the frame that prevents movement of the second permanent magnet block in all but one direction that would

occur due to the first and second permanent magnet block having different magnetic orientations.

13. (Withdrawn) The method of claim 12 wherein preventing movement of the first permanent magnet block in the one direction comprises preventing movement of the first permanent magnet block in the one direction by a means other than the frame.

14. (Withdrawn) The method of claim 12 wherein preventing movement of the first permanent magnet block in the one direction comprises mechanically preventing movement of the first permanent magnet block in the one direction.

15. (Withdrawn) The method of claim 12 wherein preventing movement of the first permanent magnet block in the one direction comprises preventing movement of the first permanent magnet block in the one direction by adhesive process.

16. (Withdrawn) The method of claim 12 wherein preventing movement of the first permanent magnet block in the one direction comprises preventing movement of the first permanent magnet block in the one direction by a deformation of the frame.

17. (Withdrawn)      The method of claim 16 wherein the deformation of the frame operates as a spring.

18. (Withdrawn)      The method of claim 12 further comprising preventing movement of the second permanent magnet block in the one direction, once inserted.

19. (Withdrawn)      The method of claim 18 further comprising applying adhesive to at least one of the sides of the first permanent magnet block and the second permanent magnet block and adhering the first permanent magnet block to the second permanent magnet block to the frame.

20. (Withdrawn)      The method of claim 19 further comprising removing any non adhesive restraint from the first permanent magnet block and the second permanent magnet block once the adhesive has set.

21. (Withdrawn)      The method of claim 20 further comprising fracturing one of the magnet blocks and removing the fractured pieces of the magnet block from the frame without damaging the other magnet block.

22. (Withdrawn) A method comprising:

placing a first permanent magnet block in a frame, the first permanent magnet block having a magnetic orientation aligned with the frame; and

placing adjacent the first permanent magnet block a second permanent magnet block in the frame, the second permanent magnet block having a magnetic orientation offset from the magnetic orientation of the first permanent magnet block..

23. (Withdrawn) The method of claim 22 further comprising placing an additional permanent magnet block in the frame, the additional permanent magnet block oriented 30 degrees from an adjacent permanent magnet block in the frame.

24. (Withdrawn) The method of claim 23 further comprising placing additional permanent magnet blocks into the frame such that a last permanent magnet block has a magnetic orientation 30 degrees from the first permanent magnet block, creating a magnetic circuit.

25. (Withdrawn) The method of claim 24 wherein additional permanent magnet blocks can be added that repeat the magnetic orientation of at least one adjacent permanent magnet block.

26. (Withdrawn)      An apparatus, comprising:
- a plurality of magnets, each magnet having the same shape and one of two magnetic orientations, each of the plurality of magnets having one of the two magnetic orientations assembled in one of eight orientations of the magnets, and each of the plurality of magnets having the second of the two magnetic orientations assembled in one of four orientations of the magnets, to form a magnetic circuit.
27. (Withdrawn)      The apparatus of claim 26, wherein the magnet shape comprises one of a square, triangle, hexagon and octagon.
28. (Withdrawn)      The apparatus of claim 27, wherein the first magnetic orientation is perpendicular to the face of the magnet, and wherein the second magnetic orientation is at an acute angle to the face of the magnet.
29. (Withdrawn)      The apparatus of claim 28, wherein the acute angle is 15 degrees.
30. (Withdrawn)      The apparatus of claim 28, wherein the acute angle is 30 degrees.



31. (Previously Presented) The method of claim 1 wherein further restraining movement is selected from the group consisting of mechanically or adhesively restraining movement.